
USS VIRGINIA
Maiden Deployment
USS VIRGINIA
CDR Todd Cramer

New Construction to Proven Platform in 6 Years

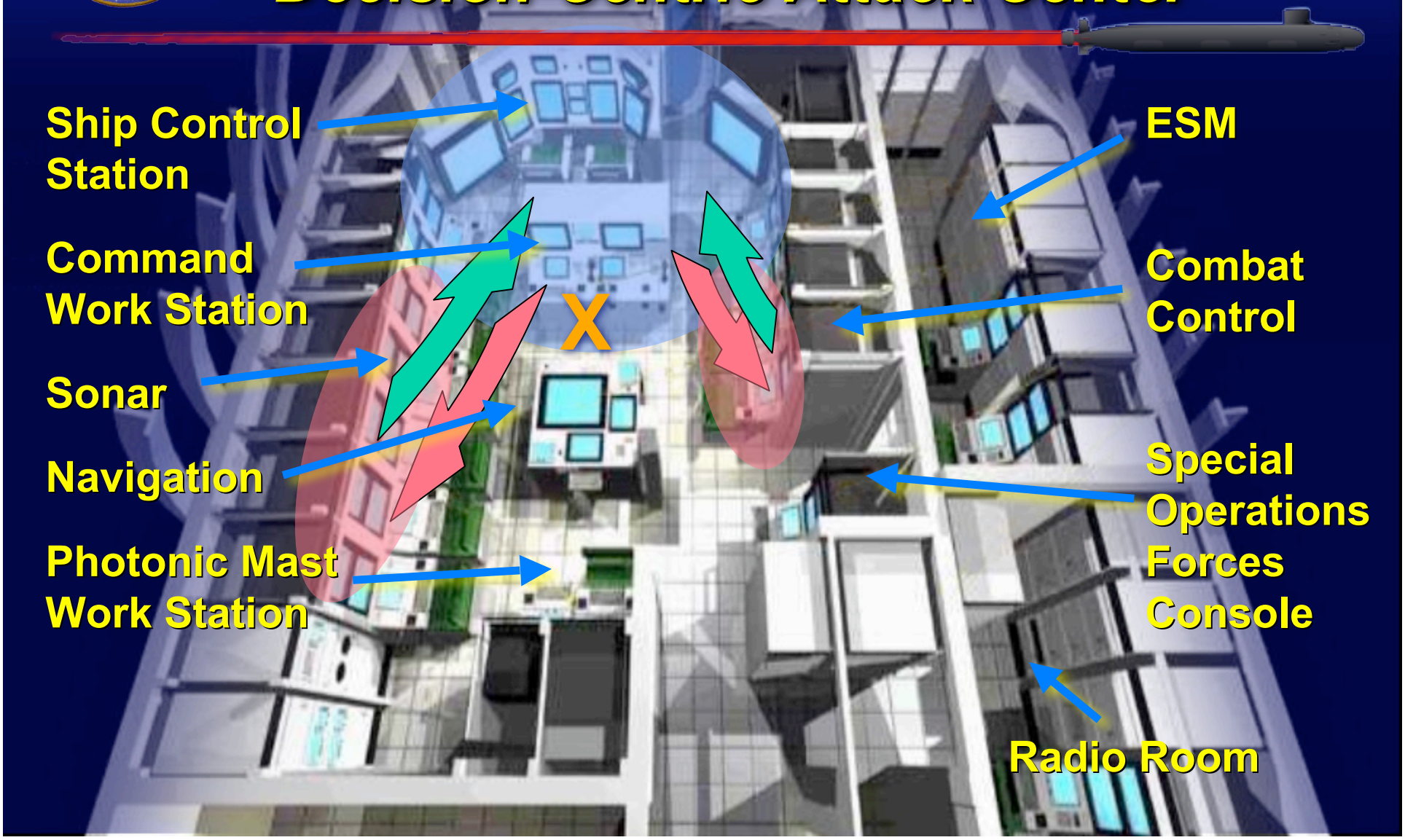
- Keel Laid: 2 Sep 99
- Christened: 16 Aug 03
- Commissioned: 23 Oct 04
- Deployed: 25 Aug - 23 Nov 05
- On Station: 16 Sep - 7 Oct 05

Sea Trials to On Station …

- VIRGINIA Class
  - Transformational / untested design
- New construction submarines
  - Typically deploy after PSA & OPEVAL
- SOUTHCOM – Low risk deployment
  - Assess design & employment of unique systems while filling COCOM need

USS VIRGINIA

Decision-Centric Attack Center



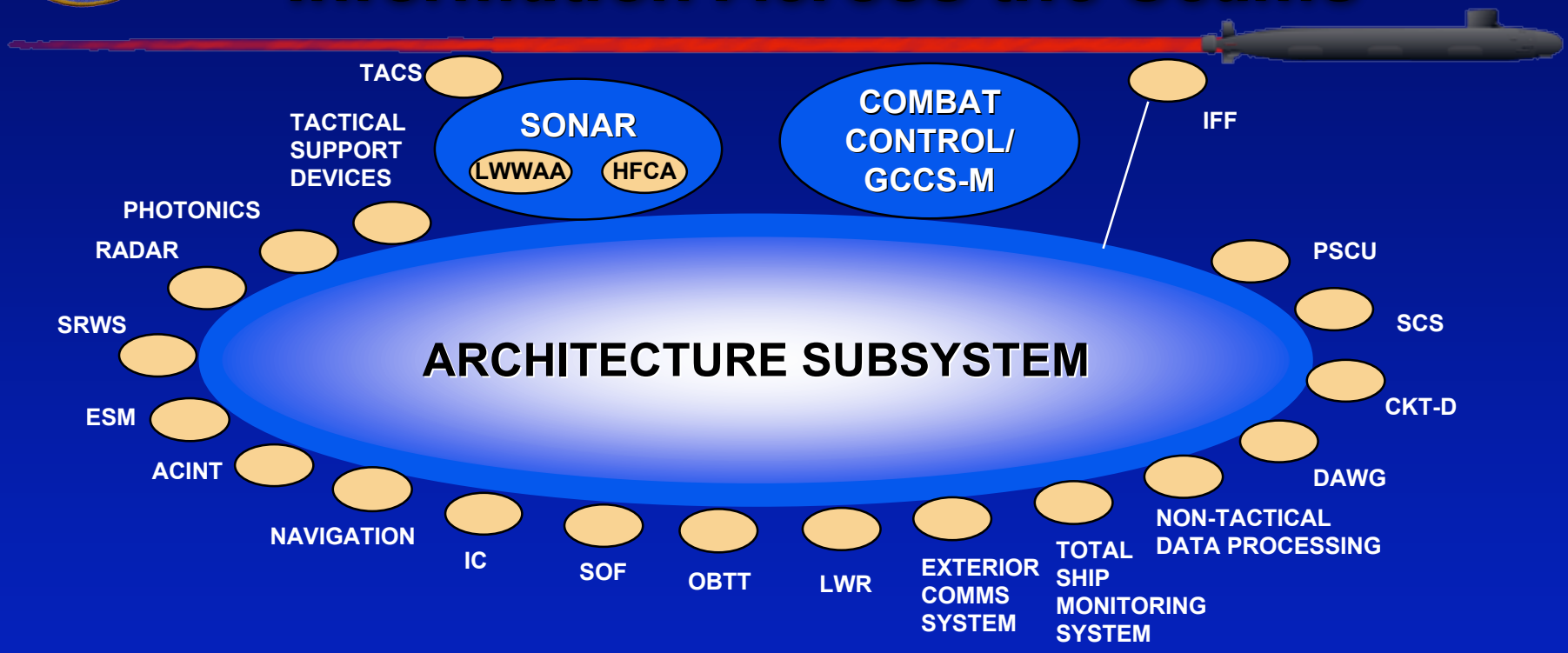
Equipment Recommendations

- Photonics Sensor Upgrades
  - Improved Color & IR camera resolution
  - Improved High Awareness Displays
  - Patriot Radar
- Automated Information System (AIS)
- Harris Universal Imaging Transfer System (HUITS)
  - To support all-digital photonics suite
- Situational Awareness Displays
  - Wardroom, CO & XO Staterooms

Situational Awareness Displays
– Wardroom, CO & XO Staterooms

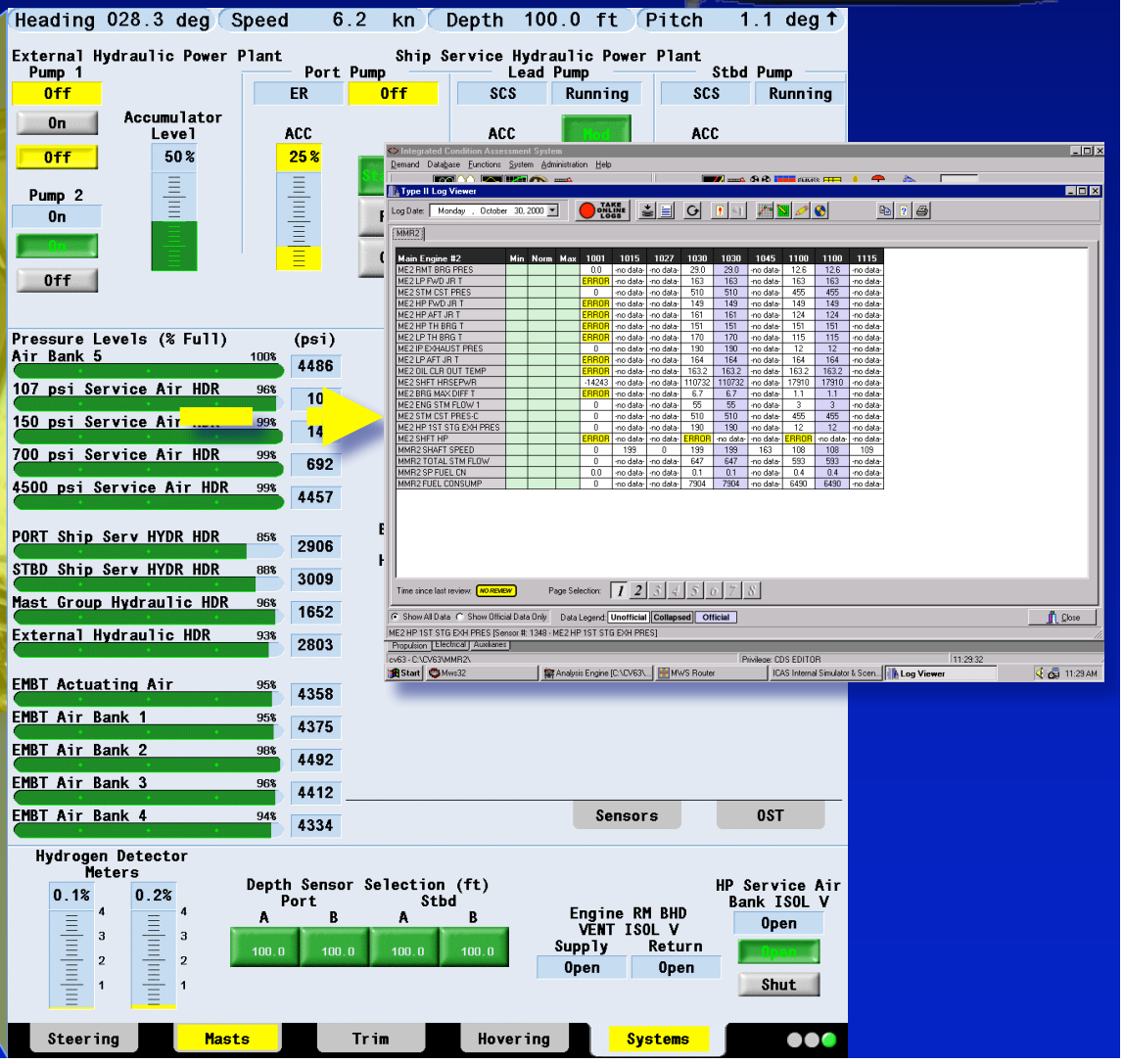
Technical Challenges

Information Across the Seams

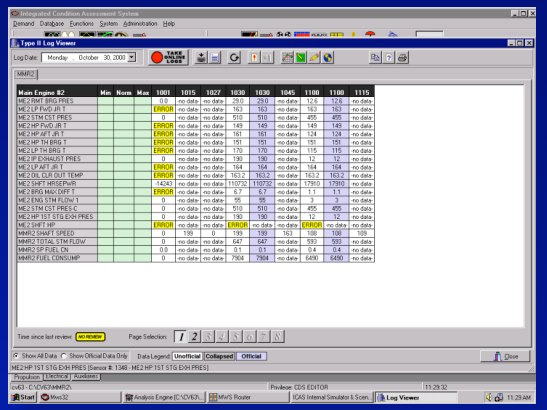


- System of systems – many software seams
- Seams require bridges for information flow
- Improvements will drive
  - Manning Reductions
  - Rapid, Sound Tactical Decisions

Data Across the Seams

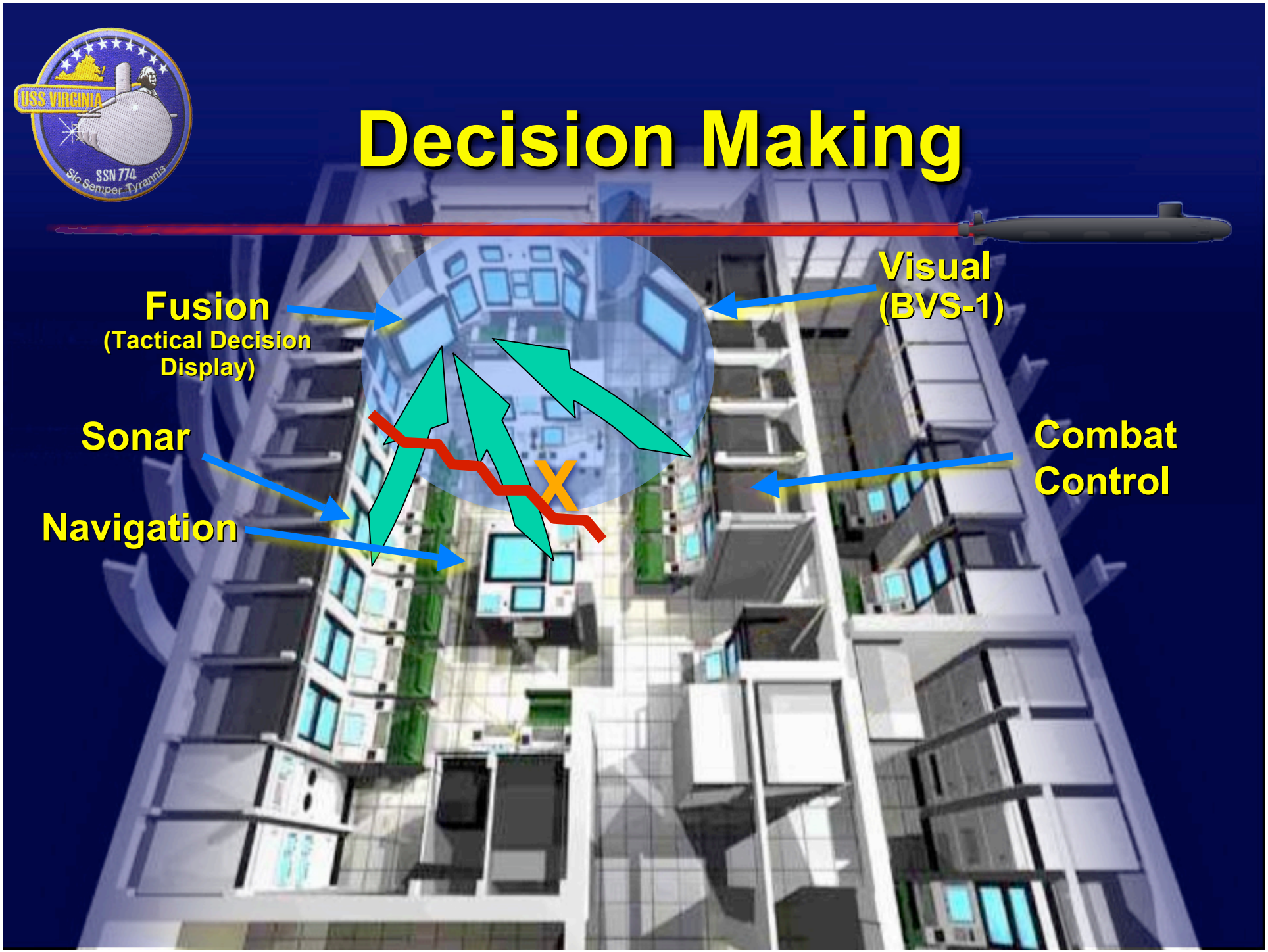


Data Across the Seams

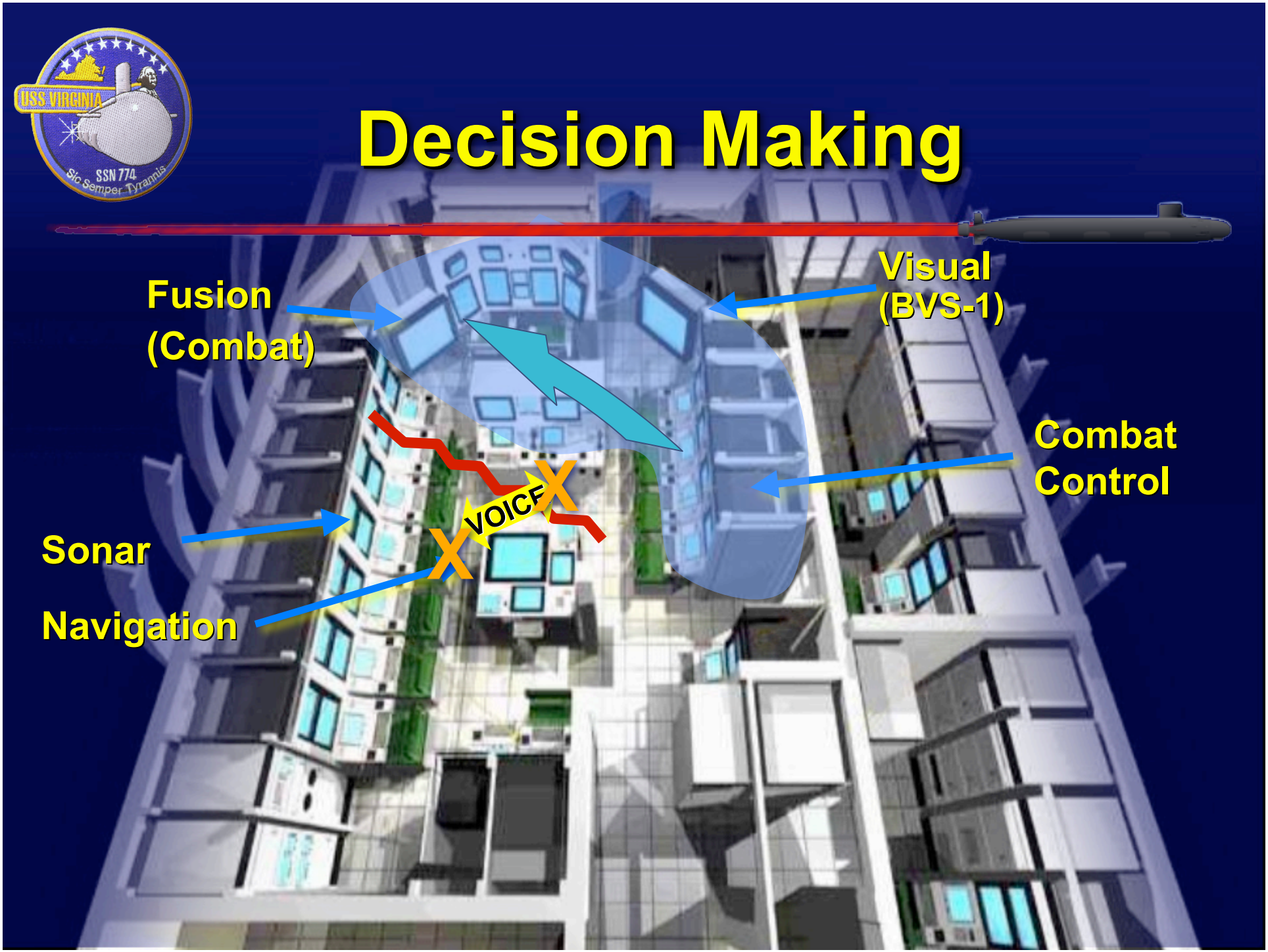


Improve efficiency by designing out the human bridge

Decision Making



Decision Making



Avoid the Temptation…

- VIRGINIA has enough monitors
- Installs need to be 774 Class specific
- 774 ≠ 688
  - We will suffer if we try to make the 774 ‘like’ a 688 in pursuit of common logistics
- Must integrate within Architecture
  - Take advantage of existing data streams
  - Use existing display footprint
  - Desktop / Dashboard Model Works on 774


USS VIRGINIA
SSN 774
Sic Semper Tyrannis